1102 #1

OIPE

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/844,508

DATE: 10/19/2001
TIME: 11:50:50
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Input Set : A:\8325-0014.txt

Output Set: N:\CRF3\10192001\1844508.raw

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3 <110> APPLICANT: WOLFFE, Alan P.
        COLLINGWOOD, Trevor
 6 <120> TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
 8 <130> FILE REFERENCE: 8325-0014 / S14-US1
10 <140> CURRENT APPLICATION NUMBER: 09/844,508
11 <141> CURRENT FILING DATE: 2001-04-27
13 <150> PRIOR APPLICATION NUMBER: 60/200,590
14 <151> PRIOR FILING DATE: 2000-04-28
                                                        ENTERED
16 <150> PRIOR APPLICATION NUMBER: 60/228,523
17 <151> PRIOR FILING DATE: 2000-08-28
19 <160> NUMBER OF SEQ ID NOS: 49
21 <170> SOFTWARE: PatentIn Ver. 2.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 9
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 target
         site 3' to 5'
32 <400> SEQUENCE: 1
33 cccctccta
                                                                      9
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 9
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence:
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 target
         site 5' to 3'
42
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45 ggggaggat
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47 <210> SEQ ID NO: 3
48 <211> LENGTH: 7
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
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61 <210> SEQ ID NO:
62 <211> LENGTH: 7
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AM
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sequence F2

68

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Input Set : A:\8325-0014.txt Output Set: N:\CRF3\10192001\1844508.raw 70 <400> SEQUENCE: 4 71 Arg Ser Ser Asn Leu Gln Arg 72 75 <210> SEQ ID NO: 5 76 <211> LENGTH: 7 77 <212> TYPE: PRT 78 <213> ORGANISM: Artificial Sequence 80 <220> FEATURE: 81 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA sequence F3 82 84 <400> SEQUENCE: 5 85 Arg Ser Asp His Leu Ser Arg 86 1 89 <210> SEQ ID NO: 6 90 <211> LENGTH: 9 91 <212> TYPE: DNA 92 <213> ORGANISM: Artificial Sequence 94 <220> FEATURE: 95 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a target site 98 <400> SEQUENCE: 6 9 99 gcggaggct 101 <210> SEQ ID NO: 7 102 <211> LENGTH: 7 103 <212> TYPE: PRT 104 <213> ORGANISM: Artificial Sequence 106 <220> FEATURE: 107 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA 108 sequence F1 110 <400> SEQUENCE: 7 111 Gln Ser Ser Asp Leu Gln Arg 112 1 115 <210> SEQ ID NO: 116 <211> LENGTH: 7 117 <212> TYPE: PRT 118 <213> ORGANISM: Artificial Sequence 120 <220> FEATURE: 121 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA sequence F2 124 <400> SEQUENCE: 8 125 Arg Ser Ser Asn Leu Gln Arg 126 1 5 129 <210> SEQ ID NO: 9 130 <211> LENGTH: 7 131 <212> TYPE: PRT 132 <213> ORGANISM: Artificial Sequence

135 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg 3a AA

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134 <220> FEATURE:

sequence F3

136

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139 Arg Ser Asp Glu Leu Ser Arg
140
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143 <210> SEQ ID NO: 10
144 <211> LENGTH: 298
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg1(
150
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152 <400> SEQUENCE: 10
153 ggtacccata cctggcaaga agaagcagca catctgccac atccagggct gtggtaaagt 60
154 ttacggcaca acctcaaatc tgcgtcgtca cctgcgctgg cacaccggcg agaggccttt 120
155 catgtgtacc tggtcctact gtggtaaacg cttcacccgt tcgtcaaacc tgcagcgtca 180
156 caagegtace cacaceggtg agaagaaatt tgettgeeeg gagtgteega agegetteat 240
157 gegtagtgae cacetgteee gteacateaa gacecaceag aataagaagg gtggatee
159 <210> SEQ ID NO: 11
160 <211> LENGTH: 99
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino
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168 <400> SEQUENCE: 11
169 Val Pro Ile Pro Gly Lys Lys Gln His Ile Cys His Ile Gln Gly
170
                                          10
172 Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu Arg
173
                 20
175 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
176
             35
                                 40
178 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
         50
179
                             55
                                                  60
181 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
                         70
                                              75
184 Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
185
                     85
                                         90
187 Gly Gly Ser
191 <210> SEQ ID NO: 12
192 <211> LENGTH: 29
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: duplex
198
          oligonucleotide binding target 5'-3'
200 <400> SEQUENCE: 12
201 catgcatage ggggaggate gecategat
                                                                       29
203 <210> SEQ ID NO: 13
204 <211> LENGTH: 14
205 <212> TYPE: PRT
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                Input Set : A:\8325-0014.txt
                Output Set: N:\CRF3\10192001\X1844508.raw
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Description of Artificial Sequence: NLS derived
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212 <400> SEQUENCE: 13
213 Met Ala Pro Lys Lys Arg Lys Val Gly Ile His Gly Val
214
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 8
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence:
          double-stranded oligonucleotide encoding a FLAG
225
          epitope
227 <400> SEQUENCE: 14
228 Asp Tyr Lys Asp Asp Asp Asp Lys
                      5
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 19
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: target site
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239
241 <400> SEQUENCE: 15
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242 ggggaggatc gcggaggct
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 5
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: linker
251
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253 <400> SEQUENCE: 16
254 Asp Gly Gly Gly Ser
258 <210> SEO ID NO: 17
259 <211> LENGTH: 298
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a
265
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267 <400> SEQUENCE: 17
268 qqtacccata cctqqcaaqa aqaaqcaqca catctqccac atccagggct gtggtaaagt 60
269 ttacqqccag tecteeqaee tgeagegtea eetgegetgg cacaeeggeg agaggeettt 120
270 catgtgtacc tggtcctact gtggtaaacg cttcacccgt tcgtcaaacc tacagaggca 180
271 caaqcqtaca cacaccqgtg agaagaaatt tgcttgcccg gagtgtccga agcgcttcat 240
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RAW SEQUENCE LISTING

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272 gcgaagtgac gagctgtcac gacatatcaa gacccaccag aacaagaagg gtggatcc
 274 <210> SEQ ID NO: 18
 275 <211> LENGTH: 99
 276 <212> TYPE: PRT
 277 <213> ORGANISM: Artificial Sequence
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a aming
           acid sequence
 283 <400> SEQUENCE: 18
 284 Val Pro Ile Pro Gly Lys Lys Gln His Ile Cys His Ile Gln Gly
 287 Cys Gly Lys Val Tyr Gly Gln Ser Ser Asp Leu Gln Arg His Leu Arg
 288
                  20
                                      25
 290 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
 293 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
                              55
 296 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
                          70
 299 Arg Ser Asp Glu Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
 300
                      85
                                          90
 302 Gly Gly Ser
. 306 <210> SEQ ID NO: 19
 307 <211> LENGTH: 29
 308 <212> TYPE: DNA
 309 <213> ORGANISM: Artificial Sequence
 311 <220> FEATURE:
 312 <223> OTHER INFORMATION: Description of Artificial Sequence: Veg3a DNA
 313
           target site
 315 <400> SEQUENCE: 19
 316 catgcatatc gcggaggctt ggcatcgat
                                                                        29
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 29
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: primer SPE7
326 <400> SEQUENCE: 20
327 gagcagaatt cggcaagaag aagcagcac
                                                                        29
329 <210> SEQ ID NO: 21
330 <211> LENGTH: 26
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
336
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338 <400> SEQUENCE: 21
339 gtggtctaga cagctcgtca cttcgc
                                                                        26
341 <210> SEQ ID NO: 22
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VERIFICATION SUMMARY

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